

## P a t e n t   c l a i m s

1. Arrangement in a H.323 network comprising a number of gatekeepers which each are connected to a number of users, characterized in that the gatekeepers are  
5 arranged hierarchically in the sense that each gatekeeper knows a higher level gatekeeper (except the "top" node) and a number of lower level gatekeepers (except the "bottom" nodes).
2. Method for establishing a connection between a calling  
10 party and a called party in a H.323 network arranged according to claim 1,  
characterized in that the calling user issues a Set-up command which is received by a connected first gatekeeper,  
15 said first gatekeeper performs a user location algorithm on its locally attached users,  
if this algorithm fails, said first gatekeeper send a Location Request message to its lower level gatekeepers,  
each lower level gatekeeper perform an user location  
20 algorithm on its attached users and lower level gatekeepers,  
if these user location algorithms fail, said first gatekeeper send a Location Request message to its higher level gatekeeper, which performs an user location algorithm  
25 on its attached users and gatekeepers except the originating gatekeeper,  
if one of the user location algorithms succeed, the gatekeeper concerned sends a Location Confirm message to the first gatekeeper,  
30 the first gatekeeper sends a Set-up message to the gatekeeper which has issued the Location Confirm message, which gatekeeper forwards said Set-up message to the called user, whereupon said connection is established.

characterized in that the calling user

5 issues a Set-up command which is received by a connected first gatekeeper,

said first gatekeeper performs a user location algorithm on its locally attached users and lower level gatekeepers,

if this user location algorithm fail, said first gatekeeper

10 forwards the call to its higher level gatekeeper, which

performs an user location algorithm on its attached users

and gatekeepers except the originating gatekeeper,

if one of the user location algorithms succeed, said higher

level gatekeeper forwards said Setup message to the called

15 user, whereupon said connection is established.

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